

R E P O R T R E S U M E S

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BIBLIOGRAPHY OF SCIENCE COURSES OF STUDY AND TEXTBOOKS FOR
GRADES 7-12.

NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.

PUB DATE

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EDUCATION ASSOCIATION, NATIONAL SCIENCE TEACHERS ASSOCIATION,
DISTRICT OF COLUMBIA

BIBLIOGRAPHIC INFORMATION PERTAINING TO CURRENT BOOKS
AND RECENTLY PREPARED COURSES OF STUDY FOR SCIENCE IN GRADES
7 THROUGH 12 COMPOSE THE TWO DIVISIONS OF THE VOLUME.
APPROXIMATELY 120 COURSES OF STUDY FOR JUNIOR AND SENIOR HIGH
SCHOOL SCIENCE ARE LISTED. ALL HAVE BEEN PREPARED SINCE 1960,
AND ALL ARE AVAILABLE FROM STATE OR LOCAL SCHOOL UNITS IN THE
UNITED STATES. EACH ENTRY INCLUDES THE TITLE, COST, SOURCE OF
COPIES, AND THE GRADE LEVEL OR ACADEMIC SUBJECT FOR WHICH IT
WAS PREPARED. INFORMATION INCLUDED WAS SOLICITED FROM MEMBERS
OF THE NATIONAL SCIENCE SUPERVISORS ASSOCIATION, ALL STATE
DEPARTMENTS OF EDUCATION, AND SCHOOL SYSTEMS. THE TEXTBOOK
SEGMENT OF THIS PUBLICATION INCLUDES MATERIAL FOR GENERAL
SCIENCE AND COMPUTER SCIENCE, EARTH SCIENCE, BIOLOGY,
CHEMISTRY, PHYSICAL SCIENCE, AND PHYSICS. IN ADDITION, THERE
IS A LISTING OF PROGRAM MATERIALS, SCIENCE EXPERIMENTS, AND
TEACHER REFERENCES. THIS DOCUMENT IS ALSO AVAILABLE FROM THE
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BIBLIOGRAPHY OF SCIENCE COURSES OF STUDY AND TEXTBOOKS

For Grades 7 - 12

1966 Edition

**U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION**

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FOREWORD

This bibliography continues the series of bibliographies of courses of study and textbooks in science begun in 1959 by the National Science Teachers Association. In this edition, the bibliographies have been organized by grade levels. Both courses of study and textbooks are included in each bibliography. Because grades 7 through 9 are separate divisions in some school systems or included in all or in part with either the elementary grades or the secondary grades in other systems, the courses of study and textbooks for these grades appear in both bibliographies. Thus, material for grades 7 through 9 is available in either bibliography.

The courses of study listed are those that were reported as being available for circulation beyond the school district or school system in which they were prepared. Information was requested from all members of the National Science Supervisors Association section of NSTA, from all state departments of education, and from school systems listed in the previous edition of the bibliography. State education departments were asked to provide names of persons in local school districts who might have appropriate materials, and these persons were also invited to submit material.

The books listed have been limited to textbooks, teacher reference material, books of experiments, and the publications of curriculum projects. Enrichment reading was not requested, though the difficulty of drawing a sharp line between a textbook and supplementary materials is becoming increasingly acute. Inquiries, and follow-up reminders if necessary, were sent to all publishers represented in the last edition of the bibliography, to all who advertise in The Science Teacher, and to all listed in Textbooks in Print as having science textbooks.

For both the courses of study and textbooks, the request specified material published after 1960. For further information about any of the entries, write directly to the address given in the bibliography. Many courses of study and textbooks are on display at the national convention of the National Science Teachers Association, and many publishers have booths at the regional NSTA meetings so that teachers may inspect and discuss their offerings. The book review pages in The Science Teacher and in Science and Children and the reviews in Science Books -- a Quarterly Review, published by the American Association for the Advancement of Science, also offer current information on new publications in science.

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LONG-RANGE COURSES OF STUDY

Grades K-12

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
Idaho	Science Program for Idaho Falls Public Schools	K-12	1964	---	Mr. Richard Kay Consultant, Science and Math State House Boise, Idaho
Illinois	Lincolnwood Human Growth Outline	Prim. Intermed. Jr.High	1965	.50	A. W. Quinn Science Coordinator Lincolnwood Schools 6855 N. Crawford Lincolnwood, Illinois 60645
	Lincolnwood Science Guide	K-8	1965	1.00 1.50(bound)	"
Michigan	Science-- A Curriculum Guide	7-12	1965	1.00	Curriculum Division Lansing School Dist. 3426 S. Cedar St. Lansing, Mich. 48910
	Integrating Conser- vation into the Existing Curriculum of the Ann Arbor Public School System (K-12)	K-12	1964	1.25	Consultant in Conservation Ann Arbor Public Schs. 1220 Wells St. Ann Arbor, Mich. 48104
New York	What Science Is New York State teachers may secure copies through their local school administrator. Available to teachers only. Out of state schools may purchase single copies only at price indicated. Payable to New York State Education Dept. with order.	K-12	1961	.25	Publications Distri- bution Unit Finance Section State Education Dept. Albany, N. Y. 12224
North Dakota	Elementary Science Handbook	K-12	1961	1.50	Dept. of Public Instruction Bismarck, N.D. 58501
Pennsylvania	K-12 Tri-Cycle Science Curriculum, Experimental Edition	K-12	1965	---	Jack Lutz, Director of Curriculum and Instruction Plymouth-Whitemarsh School District Germantown Pike Plymouth Meeting, Pa. 19462

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
Pennsylvania	Science In Action: A Guide for Teaching Science Topics. Included are: Measurement; Sim- ple Machines; Geology; Force, Energy, & Power; Simple Plants and Ani- mals; Insects and Spiders; Problems of Space Travel; Astronomy; Vertebrates; Meteorology; Ecology	1-9	1964	Free	Irvin T. Edgar, to Bureau of General State & Academic Educa- tion, Dept. of Pub- Resi- lic Instruction, dents Harrisburg, Penn- sylvania 17126
Wisconsin	Science Films and Filmstrips Lists	K-12	1965	.50	Cameron Smith Science Consultant Racine County Unified School District Racine, Wisc. 53404

JUNIOR HIGH SCHOOL

Grades 7-9, 8-12

Alaska	Earth Science Curriculum Guide	9	1965	1.00	Ernest Presher Assistant Superin- tendent of Schools North Star Borough School District Fairbanks, Alaska 99701
California	A Guide for Teaching General Science 1-2, Grades 8-10	8-10	1963	3.00	Dwight Lee, Supervisor Curriculum Production 4100 Normal San Diego, California 92103
	A Guide for Teaching General Science 3	9	1961	1.00	" "
	A Guide for Teaching General Science 4	9	1964	2.00	" "
	Living Things: Guide for Teaching Science 8	8	1965	1.00	" "
	Guide for 8th Grade Science, Units A,B,C	8	1965	1.00	" "
Colorado	Junior High Science Curriculum Guide	7-9	1963	6.00	Jefferson County Public Schools Division of Instruction 1580 Yarrow St. Lakewood, Colo. 80215
	Life Science Guide	7	1965	2.50	" "

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
Delaware	General Science	7-9	1965	2.75	Curriculum Service Center Wilmington Public Schools P. O. Box 869 Wilmington, Del. 19899
Florida	7th Grade Science	7	1963	1.00	Robert H. Liston Coordinator of Science 1011 Gilmore St. Jacksonville, Fla. 32204
	8th Grade Science	8	1963	1.00	" "
	9th Grade Science	9	1963	1.00	" "
	Course of Study, Science	7	1961	1.50	William E. Beggs Science Supervisor Pinellas County Schs. P. O. Box 719 Clearwater, Florida
	Course of Study, Science	9	1961	1.50	" "
	Aids in Science for the Slow Learner	7-9	1965	1.00	" "
	Science 7 (ITV Teacher's Guide)	7	1965	1.00	Stewart P. Darrow Science Supervisor Administration Bldg. 1410 N. E. 2nd Ave. Miami, Fla. 33132
Indiana	Science Fair Bulletin 7-12 (Outline of Procedures for a Local Fair)		1965	---	Donald R. Winslow Head, Science Dept. Division of University Schools Bloomington, Ind. 47405
	Revision of Junior High School General Science	7-9	1964	---	" "
	General Science Guide	8	1963	1.50	Carl E. Johnson Science Supervisor 210 E. Columbus Dr. East Chicago, Indiana

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
Iowa	Physics for Iowa Schools	7-8	1966	---	State Department of Public Instruction State Office Bldg. Des Moines, Iowa
	Chemistry for Iowa Schools	7-8	1965	---	" "
	Junior High Science	7-8	1966	---	" "
Michigan	Open-Ended Laboratory-Centered Science for Grades 7-9	7-9	1965	Free	Bob R. Sternberg Educational Consul- tant, NDEA Title III - Science Michigan Department of Education Lansing, Mich. 48902
	Out-of-state distribution limited to libraries, system-wide administra- tors, curriculum coordinators and science coordinators.				
Mississippi	General Science	7	1966	Free (Single copies)	R. C. Roberts Supervisor of Science State Dept. of Education Jackson, Miss.
	Earth, Space, and Life Science	8	1966	"	" "
	Physical Science	9	1966	"	" "
	Requests for copies will be filed and copies sent when available.				
New Hampshire	Science Program: Grades 7-8	7-8	1966 Spring	n.c.	Howard Wagner Director, Science Education Dept. of Education Concord, N.H. 03301
New Jersey	General Science	7-9	1965	1.00	Robert Gorton Science Coordinator High School New Providence, N.J. 07974
New Mexico	General Science Lab Manual	9	1963	---	A. C. Pruett Director of Instruction Hobbs, New Mexico
	Jal High School Course of Study for Science	9-12	1965	---	Cal Trice, Acting Supt. Jal Public Schools Jal, New Mexico

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
North Dakota	Minimum Science Equipment Inventory	Sec.	1962	.50	Department of Public Instruction Bismarck, N.D. 58501
Ohio	Visual Aids Handbook (Planographed)	---	1961	3.50*	Clerk-Treasurer Board of Education 606 E. McMillan St. Cincinnati, Ohio 45206
	*Remittance should accompany order.				
West Virginia	Science . . . A Source Book on Recent Curriculum Improvement Projects	10-12	1965	*	Gene A. Maguran, Sr. Dept. of Education Charleston, W. Va. 25305
	*Gratis on official letterhead as long as supply lasts.				
Wisconsin	Instructional Guide for the Teaching of Science - Primary through Senior High - Senior High Edition	10-12	1966	n.c.	Roger F. Bauer Wausau District Public Schools 1400 W. Stewart Ave. Wausau, Wis. 54401

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
North Carolina	Science-Grades 7-9	7-9	1964	1.50	Director of Publications Department of Public Instruction Raleigh, N.C. 27601
North Dakota	A Course of Study and a Guide for Teachers of Life Science	7	1963	1.50	Department of Public Instruction Bismarck, N.D. 58501
	A Course of Study and a Guide for Teachers of Earth Science	8	1963	1.50	" "
	Elementary Science Source Book, Vol. I	7-12	1963	1.00	" "
	Elementary Science Source Book, Vol. II	8	1963	1.00	" "
	A Teacher's Guide to Geologic Features	8-12	1963	1.00	" "
Ohio	Chemistry I and II	9	1961 -62	1.00	Arthur J. Knappe Board of Education 1470 Warren Road Lakewood, Ohio 44107
	Earth Science	9	1963	5.00	" "
	Science and Health	8	1961	4.50*	Clerk-Treasurer Board of Education 608 E. McMillan St. Cincinnati, Ohio 45206
	Science and Health, Basic Program	7-8	1964	4.50*	" "
*Remittance should accompany order.					
Oregon	Science, General Guide	7	1965	1.50	George E. Russell Curriculum Director School District 48 Beaverton, Ore. 97005
	Science, General Guide	8	1965	3.00	" "
	Science, General Guide	9	1965	1.50	" "
Pennsylvania	Earth and Space Guide Secondary	7-12	1963	Free to State Residents	Irvin T. Edgar Bureau of General and Academic Education Dept. of Public Instruction Harrisburg, Pa. 17126

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
South Carolina	Guide for the Teaching of Science	7-12	1962	1.00	Albert H. H. Dorsey Science Supervisor 801-B Rutledge Bldg. 1429 Senate St. Columbia, S.C. 29201
Virginia	Suggested Outlines in Science, Grades 8-9	8-9	1962	n.o.	Franklin D. Kizer Supervisor of Science Dept. of Education Richmond, Va. 23216
	Laboratory Experiences for Junior High School	8	1963	3.00	Director of Instruction Arlington County Schs. Arlington, Va. 22210
	Laboratory Experiences for Earth and Space Science	9	1965	3.50	" "
West Virginia	Science...A Source Book for Junior High School Teachers	7-9	1963	*	Gene A. Maguran, Sr. Dept. of Education Charleston, W.Va. 25305
	Earth Science...A Handbook on the Geology of West Virginia	7-12	1964	*	" "
	*Gratis on official letterhead as long as supply lasts.				
Wisconsin	BSCS Yellow Notes	9-10	1965	1.00	Cameron Smith Science Consultant Racine County Unified School District Racine, Wisc. 53404
	Junior High School Units: Wisconsin Glaciation, Topographic Maps	7	1965	.50	" "
	Instructional Guide for the Teaching of Science--Primary through Senior High - Junior High Edition	7-9	1966	n.o.	Roger F. Bauer Wausau District Public Schools 1400 W. Stewart Ave. Wausau, Wisc. 54401

BIOLOGICAL SCIENCES

Grades 9-12

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
California	Guide for Physiology 1-2	12	1965	3.00	Dwight Lee, Supervisor Curriculum Production 4100 Normal San Diego, Calif. 92103
Delaware	Biology	10	1964	2.75	Curriculum Service Center Wilmington Public Schs. P. O. Box 839 Wilmington, Del. 19899
Florida	Molecules Make the Man (ITV Teacher's Guide)	10	1965	1.00	Stewart P. Darrow Science Supervisor Administration Bldg. 1410 N.E. 2nd Ave. Miami, Fla. 33132
	Advanced Biology Course of Study and Lab Guide	11-12	1965	.75	" "
	Developmental Biology *Student Text **Teacher's Manual	10	1966	2.00* 1.00**	" "
Idaho	Selected Demonstra- tions and Activities for High School Biology	9-12	1964	3.00	Richard Kay Consultant, Science and Math State House Boise, Idaho
New Jersey	Biology	10	1965	1.00	Robert Gorton Science Coordinator High School New Providence, N.J. 07974
	Advanced Biology (Human Physiology)	12	1961	1.00	" "

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
New York	Consumer Biology	10	1965	.50	Charles Foster F. D. Roosevelt High School Hyde Park, N.Y. 12538
Pennsylvania	Advanced Biology Guide	12	1964	Free to State Residents	Irvin T. Edgar Bureau of General and Academic Education Department of Public Instruction Harrisburg, Pa. 17126
Virginia	Biology Laboratory Guide	10-12	1964	3.50	Director of Instruction Arlington County Schs. Arlington, Va. 22210

PHYSICAL SCIENCES

Grades 9-12

California	Guide for Advanced Chemistry 1-2	11	1965	.75	Dwight Lee, Supervisor Curriculum Production 4100 Normal San Diego, Calif. 92103
	Adpt. of Chem Study Laboratory Procedures for Semi Micro Techniques	11	1964	.10	" "
	12th Grade, Guide for Teaching Honors Physics	12	1964 Rev.	.60	" "
Delaware	Physics	10-12 Elective	1965	2.75	Curriculum Service Center Wilmington Public Schs P. O. Box 869 Wilmington, Delaware 19899
	Chemistry	11	1965	2.75	" "
Indiana	Physics Guide	11	1963	1.50	Carl E. Johnson Science Supervisor 210 E. Columbus Dr. East Chicago, Ind.

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
Maryland	Senior High School Curriculum Guide: Chemistry	10-11	1961	5.00	G. Alfred Helwig Director of Curriculum & Supervisory Services Board of Education Aigburth Manor Towson, Md. 21204
	Laboratory Manual to Accompany Senior High School Curriculum Guide: Chemistry	10-11	*	*	" "
			*In preparation - price undetermined		
	Senior High School Curriculum Guide: General Physical Science	11-12	1963*	*	" "
			*Revised edition in preparation - price undetermined		
North Dakota	An Introduction to Physical Science for the 9th Grade -- Course Outline and Teacher's Guide	9	1964	5.00	Department of Public Instruction Bismarck, N.D. 58501
	Guide for Laboratory Procedures	9-12	1962	.35	" "
Ohio	Technical Physics	12	1962	2.50	Clerk-Treasurer Board of Education 608 E. McMillan St. Cincinnati, Ohio 45206
Oregon	Lab Exercises in Biochemistry	11-12	1962	2.50	Gene Doty Chairman, Science Dept. Hillsboro High School Hillsboro, Ore. 97123
	Integration of PSSC-CBA with NSF Grant	11-12	1964	1.25 each*	Donald Stotler Science Supervisor Portland Public Schs. 631 N.E. Clackamas St. Portland, Ore. 97232
	*Teachers Guide and Students Guide				
	NSF Grant: Integration of PSSC-CHEMS	11-12	1964	1.25* each	Donald Stotler Science Supervisor Portland Public Schs. 631 N.E. Clackamas St. Portland, Ore. 97232
	*Teacher Guide and Student Guide				

VIII. MISCELLANEOUS

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
California	Guide to Laboratory Practices and Safety	11	1963	.85	Dwight Lee, Supervisor Curriculum Production 4100 Normal San Diego, California 92103
	Science Curriculum Development in the Secondary Schools	K-12	1965	.50	State Department of Education Bureau of Textbooks 721 Capitol Mall Sacramento, Calif. 95814
New Jersey	Science Seminar (Advanced Student-All Science)	12	1965	1.00	R. E. Matthew Chairman, Science Dept. West Morris Regional High School Chester, New Jersey
New York	Astronomy Curriculum Teachers Manual	---	1963	3.50*	Office of Supt. School District Box 270 Niagara Falls, N.Y. 14302
	Astronomy Course No. 2 (outline)	---	1963	1.00*	" "
	General Planetarium Program and Technical Information:			4.60* for set (sold as set only)	" "
	Concepts of Astronomical Chronology - 1962				
	Lecture No. 11-Mars-Planet of Mystery - 1962				
	Mars-Planet of Mystery (Instrument Calibration) - 1962				
	Planetarium Astronomy - 1962				
	Course No. 1 (Adult) - Man and the Universe - 1962				
	Greatest Story Ever Told (Xmas) Calibration - 1963				
	Alignment and Calibration of Small Equatorial Telescopes - 1962				
	Celestial Observation in the Basic Astronomy Course - 1963				
	Fine Adjustment and Calibration of the Spitz Model A-3P - 1962				
	Interpretations of Ephemeris and Graphic Timetable Data Particularly Suited to the Planetarium - 1962				

(*full payment must accompany all orders and checks made payable to School District of Niagara Falls, N. Y.)

<u>State</u>	<u>Title</u>	<u>Grade</u>	<u>Date</u>	<u>Cost</u>	<u>Write to:</u>
New York	General Science Course Outline	7	1961	1.00	Office of Superintendent School District Box 270 Niagara Falls, N.Y. 14302
	General Science Course Outline	8	1961	1.00	" "
	General Science Demonstrations	7-9	1962	2.00	" "
	General Science Course Outline	9	1961	1.50	" "
	Quantum Theory with Hydrogen Spectrum	---	1963	.50	" "
Full payment must accompany order. Make checks payable to School District of Niagara Falls, New York.					
	Chemistry Handbook	9-12	1962	1.50	Publications Distribution Unit Finance Section State Education Dept. Albany, N.Y. 12224
	Earth Science Handbook	9-12	1961	1.00	" "
	Nuclear Survival	7-12	1961	.25	" "
	Science Equipment and Supply Inventory	9-12	1963	.50	" "
New York State teachers may secure copies through their local administrator. Available to teachers only. Out of state schools may purchase single copies only at price indicated. Payable to New York State Education Department with order.					
	Science--Grade 9	9	1961	3.00	Robert M. Vincent Instructional Materials Center 820 Hempstead Turnpike Franklin Square, N.Y. 11010
	Ideas & Techniques 8th Grade-General Science	8	1965	3.00	" "
	7th Grade- " " 7	7	1964	3.00	" "

TEXTBOOKS IN SCIENCE

JUNIOR HIGH

Grades 7-9

1. Ames, Maurice U.; Baker, Arthur O.; and Leahy, Joseph F.

Prentice-Hall

<u>Science in Today's World</u>	432pp.	\$4.56	Grade 7
<u>Science for Your Needs</u>	448pp.	\$4.72	Grade 8
<u>Science for Progress</u>	624pp.	\$6.08	Grade 9

2. Barnard, J. Darrell; Stendler, Celia; and Spock, Benjamin

Macmillan

<u>Science: A Search for Evidence</u>	1966	422pp.	\$3.36	Grade 7
<u>Science: A Way to Solve Problems</u>	1966	422pp.	\$3.57	Grade 8
<u>Science: A Key to the Future</u>	1962		\$4.65	Grade 9

3. Beauchamp, Wilbur L.; Mayfield, John C.; and Hurd, Paul DeHart

Scott, Foresman

<u>Science Is Explaining</u>	1963	384pp.	\$4.40	Grade 7
<u>Science Is Understanding</u>	1965	480pp.	\$4.84	Grade 8
<u>Science Problems 1</u>	1964	288pp.	\$3.96	Grade 7
<u>Science Problems 2</u>	1964	336pp.	\$4.20	Grade 8
<u>Science Problems 3</u>	1964	384pp.	\$4.40	Grade 9

4. Blanc, Sam S.; Fischler, Abraham S.; and Gardner, Olcott

Holt, Rinehart and Winston

<u>Modern Science 1</u>	1963	429pp.	\$4.96	Grades 8
<u>Modern Science 2</u>	1963	433pp.	\$4.96	Grades
<u>Modern Science 3</u>	1963	438pp.	\$4.96	Grade

5. Brandwein, Paul F.; Beck, Alfred D.; Strahler, Violet; Hollingworth, Leland G.; and Brennan, Matthew J.

Harcourt, Brace and World

<u>The World of Living Things</u>	1964	500pp.	\$4.96	Grade 7
<u>The World of Matter-Energy</u>	1964	513pp.	\$5.00	Grade 8
<u>Exploring the Sciences</u>	1964	672pp.	\$6.00	Grade 9

6. Branley, Franklyn M.; Pella, Milton O.; Urban, John

Ginn

Science Horizon Series

<u>The World of Life</u>	1965	536pp.	\$4.80	Junior High
<u>The Physical World</u>	1965	564pp.	\$4.80	Junior High

7. Carpenter, Harry Allen; and Wood, G.C. (Revised by Smith, Paul; and Van Hooft, Gordon E.)

Allyn and Bacon

Our Environment Series

<u>Our Environment: Its Relation to Us</u>	1964	464pp.	\$4.44	Grade 7
Teacher's Manual			\$0.36	Grade 8
Science Discovery Book I			\$1.48	Grade 8
<u>Our Environment: How We Adapt Ourselves to It.</u> 1964			\$5.04	Grade 8
Teacher's Manual			\$0.48	Grade 8
Science Discovery Book II			\$1.52	Grade 8
<u>Our Environment: How We Use and Control It.</u> 1964			\$6.16	Grade 9
Teacher's Manual			\$0.76	Grade 9
Science Discovery Book III			\$2.04	Grade 9

8. Craig, Gerald S.; and Urban, John

Ginn

<u>Facing Tomorrow with Science</u>	1961	359pp.	\$3.52	Grade 8
Craig, Gerald S.; Arey, Charles K.; and Sheckles, Mary E.				
<u>Learning with Science</u>	1961	340pp.	\$3.44	Grade 7

9. **Davis, Burnett, Gross, Prichard, and Johnson**
Holt, Rinehart and Winston

<u>Science 1: Observation and Experiment</u>	1965	\$4.44	Grade 7
<u>Science 2: Experiment and Discovery</u>	1965	\$4.88	Grade 8
<u>Science 3: Discovery and Progress</u>	1965	\$5.96	Grade 9

10. **Farley, Sister Mary Nicholas; Smith, Vincent Edward; and Engle, Sister Mary Beatrice**
Holt, Rinehart and Winston

<u>Science and Life, Book 7</u>	1966		Grade 7
<u>Science and Life, Book 8</u>	1966		Grade 8

11. **Fitzpatrick, and Hole**
Holt, Rinehart and Winston

<u>Modern Life Science</u>	1966		Grades 7-9
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Fitzpatrick, Frederick L.; Bain, Thomas D.; and Teter, H.B.

<u>Living Things</u>	1966	\$5.40	Grades 7-9
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12. **Frasier, George W.; MacCracken, Helen D.; Decker, Donald G.; Yarian, Alton; Read, John G.; and Creswell, William H., Jr.**
Singer

<u>Scientists at Work</u>	1966	444pp.	\$4.60	Grade 7
<u>Scientists Solve Problems</u>	1966	444pp.	\$4.72	Grade 8
<u>Scientists Explore</u>	1966	520pp.	\$5.96	Grade 9

13. Gregory, William H.; and Goldman, Edward H.
Ginn
Biological Science for High School 1965 820pp. \$6.36 Grade 9
14. Heimler, and Neal
Charles E. Merrill
Principles of Science, Book 1 1966 494pp. \$5.32 Grades 7-9
(\$3.99 with educational discount)
Principles of Science, Book 2 1966 516pp. \$5.32 Grades 7-9
(\$3.99 with educational discount)
15. Jacobson, King, Killie, and Konicek
American Book
Adventures in Science 1964 528pp. \$4.20 Grade 7
Broadening Worlds of Science 1964 528pp. \$4.56 Grade 8
Challenges in Science 1964 576pp. \$5.60 Grade 9
16. MacCracken, Helen D.; Decker, Donald G.; Read, John G.; Yarian, Alton;
and Creswell, William H., Jr.
Singer
Singer Basic Sciences
Basic Life Science 450pp. \$4.80
Basic Earth Science 1964 442pp. \$4.92
Basic Physical Science 1964 454pp. \$5.00
Teacher's Guides, Laboratory Manual, and Tests available.
17. Mason and Peters
Van Nostrand
Life Science - A Modern Course 1965 390pp. \$4.60 Grades 7-9

18. Navarra, John; Zaffaroni, Joseph; and Garone, John

Harper and Row

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<u>Life and the Molecule: The Biological Science</u>	1966		\$5.20	Grades 7-9

19. Obourn, Ellsworth S.; Heiss, Ellwood D.; Montgomery, Gaylord C.; and Lape, Richard H.

Van Nostrand

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20. Schneider, Herman; and Schneider, Nina

Heath

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21. Sienko, Michell Joseph. Chemistry, Second Edition. 1961. 623pp. \$7.95 Grades 7-9.

22. Smith, Ella Thea; and Lisonbee, Lorenzo

Harcourt, Brace and World

<u>Your Biology: Second Edition</u>	1962	469pp.	\$5.40	Grade 8
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23. Smith, Victor C.

Lippincott

<u>Exploring Science for the Space Age</u>	1966	422pp.	\$3.30 \$1.35 (Workbook)	Grade 7
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24. Stone, George K.

Prentice-Hall

<u>Science in Action</u>	1964	414pp.	\$5.56	Grades 7-8 Low level
Stone, George K.; and Stephenson, Lucy W.				Grades 7-8 Low level
<u>Science You Can Use</u>	1964	415pp.	\$5.56	

25. Sutcliffe, A. and Sutcliffe, A.P.D.

Cambridge University Press

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26. Thurber, Walter A.; Durkee, Mary C.; and Kilburn, Robert B.

Allyn and Bacon

Exploring Science Series

<u>Exploring Science 7</u>	1964-1965	\$4.24
<u>Exploring Science 8</u>	1964-1965	\$4.40

27. Ware, Kay L.; and Hoffster, Gertrude B.

Steck-Vaughn

Steck-Vaughn Science Series

<u>Exploring Our World (Revised)</u>	1961	\$0.88	Grade 7
<u>Scientific Living Today (Revised)</u>	1963	\$0.88	Grade 8

GENERAL SCIENCE
and Computer Science

1. Beauchamp, Wilbur L.; Mayfield, John C.; and Hurd, Paul DeHart.
Everyday Problems in Science. Scott, Foresman. 1963. 576 pp. \$5.84. Grade 9
2. Bickel, Eigenfeld, and Hogg. Physical Science -- a Modern Approach.
Van Nostrand. 1966. \$5.60 (tentative) Grade 9
3. Brooks, W. O.; Tracy, G.R.; Tropp, H. E.; and Friedli, A. E.
Modern Physical Science. Holt, Rinehart and Winston. 1966. \$5.72. Grade 9
4. Ceddia, Feudo, Sheehan, and Woodman. Science on the Move: A Basic Text
in Chemistry, Biology, Physics, and Space. Educators Publishing Service.
1965. 480 pp. \$4.80 Grade 9
5. Darnowski, Vincent. Computers -- Theory and Uses. National Science Teachers
Association. 1964. Student's Manual. 108 pp. \$1. Teacher's Guide. 97 pp. \$1.
6. Humphreys, Alan H. Modern General Science. Steck-Vaughn. 1964 256 pp. \$2.20
7. Introductory Physical Science (ESI) Prentice-Hall. 1965. \$1.80. Grades 8-9
8. James, Albert. Natural Science Books. Four books. C. S. Hammond.
1962. 86 pp. each. \$8.95
9. Mallinson, Mallinson, and Welch. General Physical Science. McGraw-Hill.
1961. 628 pp. \$5.95
10. Mallinson, George G.; and Meppelink, Fred C., Jr. Science in Modern Life.
Ginn. 1964. 560 pp. \$6. Grade 9
11. Navarra, John; Zaffaroni, Joseph; and Garone, John. Energy and the Atom:
The Physical Sciences. Harper and Row. 1966. \$5.20. Grades 7-9
12. Palmer, Nelson P.; and Herron, W. B. Matter, Life, and Energy.
Lyons and Carnahan. 1965. 616 pp. \$5.60 Grades 8-9
13. Scott, John M. Adventures in Science. Loyola University Press. 1963.
677 pp. \$5. Grade 9
14. Windridge, C. General Science Books, Five books. C. S. Hammond. 1963.
Books 1-4, 86 pp. Book 5, 110 pp. \$11.80

EARTH SCIENCE

1. Investigating the Earth. Text, Laboratory manual, and teacher's guide.
Earth Science Curriculum Project. Post Office Box 1559, Boulder,
Colorado 80301. \$7 per set Grade 9
2. Lemkin, W.; and Winston, F. Exploring the New World of Science -- Earth
Science. Oxford. 1966. \$3.20 Grades 7-10 (average to slow)
3. Longwell, Chester P.; and Flint, R. F. Introduction to Physical Geology.
Second Edition. Wiley. 1962. 504 pp. \$7.95
4. Namowitz, Samuel N.; and Stone, Donald B. Earth Science -- The World
We Live In. Van Nostrand. 1965. 597 pp. \$5.60 Grades 8-9
5. Ramsey, William L.; and Burckley, R. A. Modern Earth Science. Holt,
Rinehart and Winston. 1965. 664 pp. \$6.08 Grades 7-9
6. Schering, F. J.; and Shupack, B. Mastering Earth Science. Oxford.
1963. 448 pp. \$2.95 (\$1.50 in paper) Grades 9-10
7. Strahler, Arthur N. Introduction to Physical Geography. John Wiley.
1965. 455 pp. \$7.95 Grades 11-12
8. Thurber, Walter A.; and Kilburn, Robert E. Exploring Earth Science.
Allyn and Bacon. 1965. 446 pp. \$4.68 Junior High School
9. Zumberge, James H. Elements of Geology. Wiley. 1963. 342 pp. \$6.50

BIOLOGY

1. Berger, Andrew J. Elementary Human Anatomy. Wiley. 1964. 538pp. \$7.75.
2. Biological Sciences Curriculum Study. Biological Science: Interaction of Experiments and Ideas. Prentice-Hall. 1965. 450pp. \$5.96. Grades 11-12
Teacher's Edition. \$6.84
3. Biological Sciences Curriculum Study. Biological Science: An Inquiry into Life Program. Harcourt, Brace and World. 1963. 748pp. \$8.00
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Animal Behavior. 1965. 80pp. \$1.36. Teacher's Supplement \$1.36.
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The Complementarity of Structure and Function. 1963. 90pp. \$1.36.
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Teacher's Supplement \$0.96.
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Regulation in Plants by Hormones. 1964. 126pp. \$1.72. Teacher's Supplement \$0.96.
5. Biological Sciences Curriculum Project. Biological Science: Molecules to Man. Blue Version. Houghton-Mifflin. 1963. 846pp.
(Text, 716pp.; Laboratory Investigations, 130pp.) \$8.40
(Text only, \$7.20; Laboratory Investigations, \$2.00 paper, \$3.20 cloth).
Grades 9-10

6. BSCS Green Version High School Biology. Rand McNally. 1963. 768pp.
\$8.24 (less 25% school discount). Grades 9-10
7. Biology at a Glance. General Science Review. Barron's. 1966. 72pp.
\$0.95.
8. Braungart and Buddeke. Biology: The Study of Living Things. McGraw-Hill. 1963. 573pp. \$6.00. Grades 9-12
9. Core, Earl L.; Strausbaugh, Perry D.; and Weimer, Bernal.
General Biology. Fourth Edition. Wiley. 1961. 555pp. \$7.95.
10. Core, Earl L.; Weimer, Bernal; Clarkson, Roy B.
A New Manual for the Biology Laboratory. Third Edition. For use with
General Biology. Wiley. 1961. 263pp. \$4.25.
11. Curtis, F.D.; and Urban, J. Biology - The Living World. Ginn.
\$6.36. Workbook, Biology in Daily Life. \$6.36.
12. Bisman, Louis; and Tanzer, Charles. Biology and Human Progress.
Prentice-Hall. 1964. 560pp. \$5.56. Grades 9-10
Low level
13. Essentials of Biology. General Science Review. Barron's. 1966. 448pp.
Paperback \$1.95. Cloth \$4.95.
14. Feldman, . Techniques and Investigations in the Life Sciences.
Holt, Rinehart and Winston. 1962. \$2.64.
15. Frohse, Franz et al. Atlas of Human Anatomy. Barnes and Noble. 1961.
180pp. Paper \$2.95. Cloth \$4.50.
16. Goin and Goin. Comparative Vertebrate Anatomy. Barnes and Noble. 242pp.
Paperback \$1.75.
17. Goodnight, C.J.; Goodnight, M.L.; and Armacost, R.R. Biology: An Intro-
duction to the Science of Life. Wiley. 1962. 460pp. \$6.95.
18. Gramet, Charles; and Mandel, James L. Biology Serving You. Prentice-Hall
624pp. \$6.56.

19. Gregory, W.H.; and Goldman, E.H. Biological Science for High School.
Ginn. 840pp. \$6.36.
20. Greulach, Victor A.; and Adams, J. Edison. Plants: An Introduction to Modern Botany. Wiley. 1962. 557pp. \$7.50.
21. Greulach, Victor E.; and Adams, J. Edison. Plants: Introductory Investigations in Botany. For use with Plants. Wiley. 1962. 168pp. \$3.95.
22. Hall and Lesser. Review Text in Biology. Amasco. 1963. 512pp. \$0.90.
23. Hardin, Garrett. Biology, Its Principles and Implications. Freeman.
1961. 627pp. \$8.50. Grade 12
24. Heiss, Ellwood; and Lape, Richard. Biology -- A Basic Science.
Van Nostrand. 1962. 689pp. \$6.20.
25. Kimball, John W. Biology. Addison-Wesley. 1964. 704pp. \$8.75.
26. Klopfer, Leopold E. History of Science Cases. Three titles: The Cells of Life, Frogs and Batteries, and The Sexuality of Plants. Each has Student Booklet (package of 5) \$3.00. Teacher's Guide, \$1.15 each.
27. Korn, Robert W.; and Korn, Ellen J. Investigations into Biology. Wiley.
1965. 402pp. \$4.50. For use with The Science of Life.
28. Kroeber, E.; Wolff, W.H.; and Weaver, R.L. Biology. Second Edition.
Heath. 1965. 646pp. \$6.48.
29. Lee, Addison E. Biology, The Science of Life. Revised. Steck-Vaughn.
1964. 272pp. \$2.20.
30. Morrison, Cornett; and Tether. Human Physiology. Holt, Rinehart and
Winston. 1963. \$6.32. Grades 11-12
31. Nason, Alvin. Textbook of Modern Biology. John Wiley. 1965. 796pp.
\$8.95. Grades 11-12
32. Otto, Julian; and Tether. Modern Health. Holt, Rinehart and Winston.
1963. \$5.68. Grades 9-12
33. Otto and Towle. Modern Biology. Holt, Rinehart and Winston. 1965.
\$6.60. Grades 9-10

34. Robbins, W.W.; Weier, T.B.; and Stocking, C.R. Botany: An Introduction to Plant Science. Third Edition. Wiley. 1964. 614pp. \$8.95.
Weier, T.B.; Stocking, C.R.; and Tucker, J.M. Botany: A Laboratory Manual. Third Edition. Wiley. 1964. 165pp. \$2.95.
35. Rogers, Terence. Elementary Human Physiology. Wiley. 1961. 417pp. \$6.50.
36. Smallwood, Reveley, and Bailey. Revised by Dodge, Ruth A. Elements of Biology. Allyn and Bacon. 1964. \$6.08. Laboratory Problems in Biology. (Greene and Bailey; revised by Greene, Robert A.) \$2.24.
37. Trump, R.F.; and Fagle, D.L. Design For Life. Holt, Rinehart and Winston. 1963. \$6.44. Grades 10-12
38. Vance, B.B.; and Miller, D.F. Biology for You. Lippincott. 1963. 660pp. \$4.59. High School
Science of Biology. 1965. 676pp. \$4.80. High School
39. Waddington, C.H. Biology for the Modern World. Barnes and Noble. 1963. 120pp. Paperback \$0.95. Cloth \$2.00.
40. Weinberg, Stanley L. Biology: An Inquiry into the Nature of Life. Allyn and Bacon. 1965. \$6.24. Laboratory Manual \$2.40.
41. Weisz, Paul B. The Science of Biology. Second Edition. McGraw-Hill. 1963. 800pp. \$8.50.
42. Winchester, A.M. Heredity: An Introduction to Genetics. Barnes and Noble. 1961; reprinted 1963. 269pp. Paperback \$1.75. Cloth \$5.25.

CHEMISTRY

1. Ahrens, Maurice R.; Bush, Norris F.; and Easley, Ray K. Living Chemistry. Ginn. 1961. 582 pp. \$6.24
2. Andrews, Donald H.; and Kokes, Richard J. Fundamental Chemistry. Wiley. 1962. 814 pp. \$7.95. Laboratory Manual for Fundamental Chemistry. 1962. 142 pp. \$2.95
3. Andrews, Donald H.; and Kokes, Richard J. Fundamental Chemistry. Wiley. 1965. 811 pp. \$8.50
4. Baker, Philip S.; Bradbury, G. M.; Eichinger, J. W.; Jr.; and Sigler, E.A. Chemistry and You. Lyons and Carnahan. 1966. 768 pp. \$5.60
5. Benson, Sidney W. Chemical Calculations: An Introduction to the Use of Mathematics in Chemistry. Second Edition. Wiley. 1963. 254 pp. \$2.95
6. Brownlee, Raymond B.; Fuller, Robert W.; and Whitsit, Jesse E. Revised by Boylan, Paul J. Elements of Chemistry. Allyn and Bacon. 1962. 704 pp. \$6.24. Laboratory Experiments in Chemistry \$2.68
7. Castka, J. F. Chemistry Problems. Holt, Rinehart and Winston. 1962. \$3.60
8. Chemical Bond Approach Project. Chemical Systems. McGraw-Hill. 1964. 784 pp. \$6.96. Investigating Chemical Systems Laboratory Guide. \$2.24. Teacher's Edition. \$5.
9. Chemical Education Material Study. Chemistry -- An Experimental Science. Freeman. 1963. 466 pp. \$5.80 Laboratory Manual \$1.60. Teachers Guide \$7.
10. DeBruyne, K. I.; Kirk, L.R.; and Beers, L.O. Semi-micro Chemistry. Holt, Rinehart and Winston. 1966. \$2.52
11. Dorf, H.; Lemkin, W.; and Troik, S. Chemistry for the Nuclear Age. Oxford. 1965. 608 pp. \$4.17

12. Dull, C. E.; Metcalfe, H. Clark; and Williams, John E. Modern Chemistry. Holt, Rinehart and Winston. 1966. \$6.08
13. Ewing, Galen W.; and Meyer, F. Gerald. Chemistry: A Survey of Principles. Wiley. 1963. 239 pp. \$4.95
14. Flaschen, Steward S. Search and Research: Stories of the Chemical Elements. Allyn and Bacon. 1965. \$2.96
15. Fliedner, Leonard J. and Teichman, Louis. Chemistry -- Man's Servant. Allyn and Bacon. 1965. \$5.96. Laboratory Manual \$2.68
16. Garrett, Alfred B.; Richardson, John S.; and Kiefer, Arthur S. Chemistry -- A First Course in Modern Chemistry. Ginn. 1964. 678 pp. \$6.08
17. Garrett, A. B.; Richardson, J.S.; and Kiefer, A. S. K. Chemistry -- A First Course in Modern Chemistry. Revised Edition. Ginn. 1964. 678 pp. \$6.08
18. Garrett, A. B. Semimicro Laboratory Experiments and Projects. Ginn. 1963 241 pp. \$2.72
19. Geffner, Saul L. Experimental High School Chemistry. Amsco. 1963. 240 pp. \$1.20
Experimental Chemistry and Workbook. 1964. 368 pp. \$1.70
20. Geffner, Saul L. Semimicro Experimental Chemistry, Amsco. 1964. 256 pp. \$1.30
21. Geffner, Saul L. Semimicro Experimental Chemistry and Workbook. Amsco. 1964 320 pp. \$1.80
22. Geffner, Saul L. Chemistry Workbook Exercises. Amsco. 1964. 128 pp. \$0.70
23. Hogg, John C.; Bickel, Charles L.; and Little, Elbert P. Physics and Chemistry -- a Unified Approach Book 2. 1961. 481 pp. \$5.60
24. Hogg, John C.; Bickel, Charles L.; Nicholson, Margaret; and Wik, Harold. Chemistry -- a Modern Approach. Van Nostrand. 1963. 570 pp. \$5.96
25. Holum, John. Elements of General and Biological Chemistry: An Introduction to the Molecular Basis of Life. Wiley. 1962. 470 pp. \$5.95
26. Holum, John. Experiments in General, Organic and Biological Chemistry: A Laboratory Manual. Wiley. 1963. 119 pp. \$2.95

27. Klopfer, Leopold E. History of Science Cases. Three titles: The Chemistry of Fixed Air, The Discovery of the Halogen Elements, The Rejection of the Atomic Theory. SRA. Each title has Student Booklet (package of 5) \$3. Teacher's Guide \$1.15
28. McGill, Martin V.; Bradbury, G. M.; and Sigler, E.A. Chemistry Guide and Laboratory Activities. Lyons and Carnahan. 1966. 360 pp. \$2.
29. McGill, Martin V.; and Bradbury, G. M. Semimicro Laboratory Activities in Chemistry. Lyons and Carnahan. 1962. 182 pp. \$1.48
30. Oppe, Greta. Chemistry. Revised. Steck-Vaughn. 1963. 272 pp. \$2.20
31. Pauling, Linus. College Chemistry. Freeman. 1964. 832 pp. \$8.25
32. Porter, George. Chemistry for the Modern World. Barnes and Noble. 1963. 116 pp. Paperback \$0.95. Cloth. \$2.
33. Posin, Daniel Q.; and Shampo, Marc. Chemistry for the Space Age. Lippincott. 1964. 704 pp. \$4.59
34. Rawlins, G. M.; Struble, A. H.; and Gatewood, C. Chemistry in Action. Fourth Edition. 1961. 583 pp. \$5.88
35. Sanderson, R. T. Principles of Chemistry. Wiley. 1963. 626 pp. \$7.95
36. Sienko, Michell Joseph. Chemistry. Second Edition. McGraw-Hill 1961. 623 pp. \$7.95
37. Smoot, Robert C.; Price, Jack S.; and Barrett, Richard L. Chemistry: a Modern Course. Charles E. Merrill. 1965. 582 pp. \$5.80 (\$4.35 with educational discount). Laboratory Manual \$2.20
38. Sturchio, Dorfman, and Nechamkin. Chemistry. Prentice-Hall. 1966. \$5.96
39. Tilbury, Glen. Problem Solving in Chemistry. Lyons and Carnahan. 1962. 218 pp. \$2.08
40. Weisbruch, F. T. Semimicro Laboratory Exercises in High School Chemistry. Second Edition. Heath. 1962. 277 pp. \$2.52. Teacher's Handbook and Guide \$1.
41. Weisbruch, F. T. and Chewing, W. J. Chemistry -- A Laboratory Science by the Semimicro Method. Heath. 1963. 277 pp. \$2.76. Teacher's Edition \$2.76

PHYSICAL SCIENCE AND PHYSICS

1. Andrade, Edward N. Physics for the Modern World. Barnes & Noble. 1963. 100 pp. Paperback \$0.95 Cloth \$2.
2. Atkins, Kenneth R. Physics. John Wiley. 1965. 754 pp. \$9.50
3. Baker, D. Lee; Brownlee, Raymond B.; and Fuller, Robert W. Revised by Boyland, Paul J. Elements of Physics. Allyn and Bacon. 1962. 692 pp. \$5.96 Laboratory Experiments in Physics. \$2.56
4. Beiser, Arthur. The Science of Physics. Addison-Wesley. 1964. 592 pp. \$6.
5. Bickel, Eigenfeld, and Hogg. Physical Science -- a Modern Approach. Van Nostrand. 1966. \$5.60 (tentative) Grade 9
6. Blackwood, Oswald H.; Herron, Wilmer B.; and Kelley, William C. High School Physics. Revised. Ginn. 1961. 808 pp. \$6.08
7. Blackwood, Oswald H.; Kelly, William C.; and Bell, Raymond M. General Physics. Third Edition. Wiley. 1963. 685 pp. \$8.50
8. Brinckerhoff, Richard; Cross, Burnett; Watson, Fletcher; and Brandwein, Paul F. The Physical World, A Course in Physical Science. Harcourt Brace and World. 1963. 498 pp. \$5.40
9. Brooks, W. D.; Tracy, G. R.; Tropp, H. E.; and Friedli, A. E. Modern Physical Science. Holt, Rinehart and Winston. 1966. \$5.72 Grade 9
10. Casta, J. F.; and Lefler, R. W. Physics Problems. Holt, Rinehart and Winston. 1961. \$3.40
11. Dull, C. E.; Metcalfe, H. Clark; and Williams, John E. Modern Physics. Holt, Rinehart and Winston. 1964. 728 pp. \$6.08
12. Efron, Alexander. Laboratory Workbook for Basic Physics. Hayden. 1961. 216 pp. \$2.50

- Efron, Alexander. Direct Current Electricity. Hayden. 1960. 91 pp. \$2.25
- Efron, Alexander. Alternating Current Electricity. Hayden. 1961. 96 pp. \$2.25
- Efron, Alexander. Magnetic and Electric Fundamentals. Hayden. 1960. 132 pp. \$2.50
13. Heckman, Harry H. and Starring, Paul W. Nuclear Physics and the Fundamental Particles. Holt, Rinehart and Winston. 1963. 410 pp. \$2.72
 14. Hogg, John C.; Bickel, Charles L.; Little, Elbert P. Physics and Chemistry -- a Unified Approach Book 2. Van Nostrand. 1961. 481 pp. \$5.60
 15. Klopfer, Leopold E. History of Science Cases. Three titles: Fraunhofer Lines, Air Pressure, The Speed of Light. SRA. Each title has Student Booklet (package of 5) \$3. Teacher's Guide \$1.15
 16. Lehrman, R. L.; and Swartz, C. Foundations of Physics. Holt, Rinehart and Winston. 1965. \$6.40
 17. MacLachlan, McNeill, and Bell. Matter and Energy. Noble and Noble. 1964. \$5.48
 - Mallinson, Mallinson, and Welch. General Physical Science. McGraw-Hill. 1961. 628 pp. \$5.96
 18. Marcus, Abraham. Physics for Modern Times. Prentice-Hall. 781 pp. \$6.32
 19. Miller, Rex; and Culpepper, Fred W., Jr. Energy, Electricity, and Electronics. McKnight & McKnight. 1963. 235 pp. \$3.90
 20. Navarra, John; Zaffaroni, Joseph; and Garone, John. Energy and the Atom: The Physical Sciences. Harper and Row. 1966. \$5.20
 21. Orear, Jay. Fundamental Physics. (For rigorous advanced course). Wiley. 1961. 381 pp. \$6.75 (Programmed Manual for Students of Fundamental Physics.) 1962. 228 pp. \$4.95
 22. Palmer, Nelson P.; and Herron, W. B. Matter, Life, and Energy. Lyons and Carnahan. 1965. 616 pp. \$5.60 Grades 8-9
 23. Pella, Milton O.; and Wood, Aubrey G. Physical Science for Progress. Prentice-Hall. 1964. 600 pp. \$5.84

24. Physical Science Study Committee of Educational Services Incorporated.
PSSC Physics. Second Edition. Heath. 1965. \$6.12 Laboratory Guide \$1.60
25. PSSC Advanced Topics Program. Heath
Angular Momentum and Its Conservation. 1963. 20 pp. \$1. Laboratory Guide \$1.
Relativistic Kinematics. 1962. 20 pp. \$1.
Speed, Energy, and Mass. 1963. \$1.
Irreversible Processes. 1963. 16 pp. \$1.
26. Portland Physical Science Project. Designs of the Cosmos. Holt, Rinehart and Winston. 1965. \$4.80
27. Ripin, Edwin M. How to Solve Physics Problems. Hayden. 1961. 112 pp. \$1.80
28. Ripley, J. A. The Elements and Structure of the Physical Sciences. Wiley. 1964. 584 pp. \$8.95
29. Schulz, Richard W.; and Lagemann, Robert T. Physics for the Space Age. Lippincott. 1966. 479 pp. \$4.47
30. Stollberg, Robert; and Hill, Faith Fitch. Physics: Fundamentals and Frontiers. Houghton-Mifflin. 1965. Text and Laboratory Investigations. 845 pp. \$8.40
Text only. 696 pp. \$6.60 Laboratory Investigations only. 149 pp. \$1.80
31. Taffel, Alexander. Physics: Its Methods and Meanings. Allyn and Bacon. 1965. 566 pp. \$5.88
32. Trinklein, F. E.; and Huffer, C. M. Modern Space Science. Holt, Rinehart and Winston. 1961. 550 pp. \$5.40
33. Verwiebe, Frank L.; Van Hooft, Gordon; and Suchy, Robert R. Physics -- A Basic Science. Fourth Edition. Van Nostrand. 1962. 704 pp. \$5.96
34. Weisbruch, F. T. and others. A Laboratory Text for Physical Science. Heath. 1965. \$2.65 Teacher's Edition \$2.65
35. Wistar, Richard. Man and His Physical Universe: An Integrated Course in Physical Science. Second Edition. Wiley. 1963. 376 pp. \$7.95

PROGRAMED UNITS

1. Bowman, B.; and Glascock, G. Chemistry: Matter & Chemical Change. 1962.
702 pp. \$16.
2. deBaca, P. C.; and Fullilove, J. P. Fundamentals of Human Physiology.
1961. 360 pp. \$11.
3. Joseph, Alexander; and Leahy, Daniel. Programed Physics (Three of four volumes
available) Wiley. 1965. Vol. 1 \$5.95. Vol. 2 \$4.95. Vol. 3 \$3.95.
Grade level 11-12
4. Powell, Virginia P. Programmed Units in Chemistry. Prentice-Hall.
Chemical Symbols. 1965. 31 pp. \$0.68
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6. Programed Supplementary Texts. (Continued)

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The Human Body and Its Functions. 1964. \$4.25

7. Programed Introduction to Vectors. (for self study, grades 11-12)

Wiley. 1963. \$2.75

8. Sacerdote, Luciana. General Chemistry -- a Programed Review. Wiley. 1963.

325 pp. \$4.95 Grade level 11-12

9. Sackheim, George I. Chemistry -- Junior-Senior High School. Harper and Row.

The Gas Laws. 1964. \$1.20

Naming Inorganic Compounds. 1964. \$1.20

Naming Simple Hydrocarbons. 1964. \$1.20

10. Sullivan and Associates. Programmed Astronomy: The Solar System. McGraw-Hill.

1963. 304 pp. \$4.32 High School

11. TMI-Grolier Programed Instruction Materials. Junior High School

General Science Series by H. H. Schaefer and A. P. Jeffries.

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Biology and Chemistry. 1962. 491 pp. \$13.50

Sound, Light, Electricity, and Communications. 1962. 445 pp. \$13.50

Measurement, Meteorology, and Astronomy. 1962. 450 pp. \$13.50

12. Tosti, D. T. Fundamentals of Electricity, D.C. 1962. 291 pp. \$11.

SCIENCE EXPERIMENTS

1. Barrett, Raymond E. Build-It-Yourself Science Laboratory. Doubleday. 1963.
340 pp. \$4.50
2. Challand, Helen J.; and Brandt, Elizabeth R. Science Activities from A to Z.
Childrens. 1963. 224 pp. \$4.13 Grade level 4-5
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178 pp. \$3.50
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144 pp. \$3.45
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Holt, Rinehart and Winston. 1966. \$1.72
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160 pp. \$3.38
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246 pp. \$3.95
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11. Sulcoski, John W. Semimicro Experiments in Chemistry. Burgess. 1964.
147 pp. \$2.90
12. Water Intake by Soil. Experiments for High School Students. Government Printing
Office. 1963. 10 pp. \$0.10

TEACHERS REFERENCES

Junior High School

1. Berger, J. Joel; and Baumel, Howard. Enriching the Science Program. Teachers Practical Press. 1964. 56 pp. \$1.95
2. Boenning, Eileen Mehle; and Monson, Marilyn J. Steps Into Space. Lyons and Carnahan. 1965. 94 pp. \$1.40
3. Deason, Hilary J. A Guide to Science Reading. New American Library (Signet). 1964. 220 pp. \$0.60
4. Earth Science Curriculum Project Reference Series. Prentice-Hall.
 - RS-1 Sources of Earth Science Information. 1964. 48 pp. \$0.40
 - RS-2 Selected References for Earth Science Courses. 1964. 34 pp. \$0.40
 - RS-3 Selected Earth Science Films. 1964. 34 pp. \$0.40
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 - RS-7 Planetariums, Observatories, and Earth Science Exhibits -- Where to See Them. 1965.
 - RS-8 Fossils: Their Classification and Identification. 1965.
 - RS-9 Selected Topographic Maps: Their Use and Interpretation. 1965.
5. Heller, Robert L., Editor. Geology and Earth Sciences Sourcebook. Holt, Rinehart and Winston. 1962. 496 pp. \$3.60
6. Hug, John; and Wilson, Phyllis. Curriculum Enrichment -- Outdoors. Harper and Row. 1965. \$3.80
7. Lesser, Milton. Successful Science Teaching. Teachers Practical Press. 1961. 62 pp. \$1.95

8. U. S. Government Publications. U.S. Government Printing Office.
Aeronautics and Space Bibliography for Secondary Grades. First Edition.
1961. 41 pp. \$0.30. Second Edition. 1963. 50 pp. \$0.35
Aids for Teaching Science, Evidences of Good Science Program. 1963.
10 pp. \$0.15
Aids for Teaching Science, Suggested Checklist for Assessing a Science
Program. Revised 1964. 20 pp. \$0.15
Facilities and Equipment for Science and Mathematics, Requirements and
Recommendations of State Departments of Education. 1960. 130 pp. \$1.
Science as Way of Life. 1961. 27 pp. \$0.15
Science Equipment and Materials, Science Kits. 1963. 26 pp. \$0.15
Science Course Improvement Projects, College and University, Secondary,
Elementary. 1964. 77 pp. \$0.50
STEPS to Excellence, a Program to Improve Science Teaching. 1962.
12 pp. \$0.15
9. White, John Francis. Study of the Earth: Readings in Geological Science.
Prentice-Hall. 1962. 408 pp. \$3.95
10. Woodburn, John H.; and Obourn, Ellsworth S. Teaching the Pursuit of Science.
1965. 470 pp. \$7.50

TEACHERS REFERENCES

1. Arons, Arnold B. Development of Concepts of Physics. Addison-Wesley. 1965. 768 pp. \$8.75
2. Barthelemy, R. E.; Dawson, J. R., Jr.; and Lee, Addison E. Innovations in Equipment and Techniques for the Biology Teaching Laboratory. (BSUS Committee on Innovation in Laboratory Instruction), Heath. 1964. 116 pp. \$1.95
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4. Feldman, S. Experiments in Biological Design. Holt, Rinehart and Winston. 1965. \$2.80
5. Feynman, Leighton, and Sands. The Feynman Lectures on Physics. Addison-Wesley. 1963. 519 pp. \$8.75
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7. Sanderson, Robert T. Teaching Chemistry with Models. Van Nostrand. 1962. 219 pp. \$5.75
8. Spielman, Harold S. Electronics Source Book for Teachers. Three volumes. Hayden. 1965. 1609 pp. \$48.
9. Theory Into Action . . . in Science Curriculum Development. National Science Teachers Association. 1964. 48 pp. \$1.50
10. U.S. Government Publications. Government Printing Office.
The Major Principles of Physics, Chemistry, and Geology of Importance for General Education. Revised 1962. 27 pp. \$0.20
The Major Principles of the Biological Sciences of Importance for General Education. Revised 1962. 1963. 34 pp. \$0.25
11. Wehr, M. R.; and Richards, J.A. Introductory Atomic Physics. Addison-Wesley. 1962. 420 pp. \$8.75

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